SEVENTEENTH ANNUAL

WINTER NEUROPEPTIDE CONFERENCE 1996

February 2-6, 1996

BRECKENRIDGE, COLORADO

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WINTER NEUROPEPTIDE CONFERENCE

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February 2-6, 1996

WELCOME TO THE WINTER NEUROPEPTIDE CONFERENCE.

We are pleased to be hosts for this, the seventeenth year of the conference.

We hope that your meetings are profitable and your stay in Breckenridge relaxing and enjoyable. If we can be of any assistance, just let us know.

Cordially,

Deb Edwards

Debra Edwards
Conference Coordinator

Conference Committee Members
Fleur Strand
Bibie Chronwall
Curt Sandman
Bill Beckwith

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ACKNOWLEDGEMENTS

Fleur Strand - Chair
Curt Sandman - Treasurer & Facilities Chair
Bill Beckwith - Program Chair
Bibie Chronwall - Finance Chair
Dr. Carl Cotman - Plenary Speaker
Abba Kastin - Editor, Peptides
Bill Boland - Chief Editor, New York Academy of Sciences
The International Neuropeptide Society
Debra Edwards - Conference Coordinator
Susan Gregory & Kathy Robinson - Slide Projectionists
Terry Byrnes - Beaver Run Resort
Liz Cenzalli - Beaver Run Resort
Jenny Gloudemans - Keystone Resort Conference Services
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The Winter Neuropeptide Conference would like to acknowledge the following companies for their financial support of the Conference:

Biomeasure Inc.
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The Council for Tobacco Research
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The Winter Neuropeptide conference is an Affiliate of the International Neuropeptide Society.

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Schedule-at-a-Glance

17th ANNUAL WINTER NEUROPEPTIDE CONFERENCE
February 2 -6, 1996

All Meetings in Peaks 6 - 12

Thursday, February 1

5 - 8 PM	Conference Registration, Peaks 6 - 12 Foyer

Friday, February 2

8 - 9 AM	Conference Registration, Peaks 6 - 12 Foyer
9 - 11:30 AM	Symposia Meeting
11:30 AM - 1 PM	Lunch Break (on your own)
1 - 3:20 PM	Symposia Meeting
3:30 - 6 PM	Symposia Meeting

Saturday, February 3

Noon - 10 PM	Conference Registration, Peaks 6 - 12 Foyer
3:30 - 3:45 PM	Opening Remarks
3:45 - 6 PM	Symposia Meeting
6 - 8 PM	Dinner Break (on your own)
8 - 10 PM	Symposia Meeting

Sunday, February 4

3 - 10 PM	Conference Registration, Peaks 6 - 12 Foyer
3:45 - 6 PM	Symposia Meeting
6 - 8 PM	Dinner Break (on your own)
8 - 10 PM	Symposia Meeting

Monday, February 5

10:00 AM	Tom Davis "Psychopathic Challenge" - Meet at top of Chair 6
11:30 AM	"I Licked Devil's Crotch" with Bill Beckwith - Meet at Peak 9 Restaurant
3 - 7 PM	Conference Registration, Peaks 6 - 12 Foyer
3:45 - 6 PM	Symposia Meeting
6:00 PM	Plenary Session - Dr. Carl Cotman
7:15 PM	Meet for transportation to Keystone Beaver Run Lobby
7:45 PM	Cocktails at The Ranch, Keystone
8:30 PM	Dinner at The Ranch, Keystone

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Tuesday, February 6

10 AM	NASTAR Ski Race: Country Boy (Peak 9)
Noon	Lunch: Fa Heata's
3 - 7 PM	Conference Registration: Forest Room Lobby
3 - 5 PM	Symposia Meeting
5 - 7 PM	Symposia Meeting
7 - 10 PM	Poster Session Cocktails & Hors D'oeuvres

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SYMPOSIA FOR 17th ANNUAL WINTER NEUROPEPTIDE CONFERENCE

FRIDAY, 2 FEBRUARY, 1996
9:00 AM – 11:30 AM

SESSION I

PANEL: "Peptides in Locusts: A Review." **Liliane Schoofs**, Catholic University of Leuven, Zoological Institute, Naamsestraat 59, B–3000, Leuven, Belgium; D. Veerlaert and A. De Loof

"Tachykinin–related Peptides in the Cockroach Nervous System and Intestine: Structure, Distribution and Actions." **Dick R. Nassel**, Stockholm University, Department of Zoology, S–10691, Stockholm, Sweden; and J.E. Muren

"FMRFamide–related Peptides in Insects, with emphasis on the myosuppressins." **Ian Orchard**, University of Toronto, Department of Zoology, 25 Harbord St., Toronto, Ontario, M5S 1A1, Canada; A.B. Lange, S.S. Tobe and W.G. Bendena

"The Isolation of Peptides and Generation of Sequence–specific Antisera to Study Expression of *Drosophila* DMS, DSK and FMRFamide Gene Products." **Ruthann Nichols**, University of Michigan, Biological Chemistry Department, 830 N. University Street, Natural Science Building, Room 3004, Ann Arbor, MI 48109–1048; J. McCormick and I. Lim

"A Molecular Genetic Analysis of Neuropeptide Systems in *Drosophila*." **M.A. O'Brien**, Washington University Medical School, Anatomy and Neurobiology Department, 660 S. Euclid, St. Louis, MO 63110; and P.H. Taghert

1:00 PM – 3:20 PM

SESSION II

PANEL: "Identification and Characterization of a *Drosophila* Homologue to the Lepidopteran Neuropeptide Allatostatin." **W.G. Bendena**, Queens University, Department of Biology, Kingston, Ontario, Canada K7L 3N6; P.M. Koladich, M.D. Price, and S.S. Tobe

"The Crustacean Hyperglycemic Hormone Family of Neuropeptides." **Daniel Soyez**, Biochimie et Physiologie du Developpement, 46 Rue D'Ulm, 75230, Paries, Cedex 05, France

"The Role of Locusta Diuretic Hormone in the Control of Primary Urine Production." **Geoffrey M. Coast**, Birkbeck College, University of London, Department of Biology, Malet Street, London, WCIE 7HX, United Kingdom

"Metabolism of an Insectdiuretic Hormone Studied by Online Microbore Liquid Chromatography Coupled to Electrospray Ionization Mass Spectrometry." **David A. Schooley**, University of Nevada, Department of Biochemistry, Reno, NV 89557; H. Li and H. Wang

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"**Mosquito Regulatory Peptides Possibly Involved in the Regulation of Diuresis and Digestion.**" **Jan A. Veenstra**, Center for Insect Science, Department of Entomology, Forbes Building, Room 410, Tucson, AZ 85721

3:35 PM – 6:00 PM

SESSION III

PANEL: "**Biochemical Characterization of Mosquito Kinin and Related Receptors.**" **Timothy K. Hayes**, Texas A& M University, Department of Entomology, College Station, TX 77843; A. Strey, S. Belk, G.M. Holman, R.J. Nachman, D. Petzel, J. Redio, R. Meola and K. Beyenbach

"**Isolation and Structure–activity Studies of SchistoFLRFamide Like Peptides.**" **Angela B. Lange**, University of Toronto, Department of Biology, Erindale College, 3359 Mississauga Road, Mississauga, Ontario, LSL K6, Canada; I. Orchard, Z. Wang, A.N. Starratt and R.J. Nachman

"**Cloning of a cDNA from Stable Fly which Encodes a Protein with Homology to a *Drosophila* Receptor for Tachykinin–like Peptides.**" **Felix D. Guerrero**, USDA–ARS Livestock Insects Research Lab, 2700 Fredericksburg Road, Kerrville, TX 78028

"**Angiotensin–converting Enzyme and the Processing of Regulatory Peptides in Insects.**" **R. Elwyn Isaac**, Leeds University, Department of Pure and Applied Biology, Level 8, Biology Multipurpose Building, Leeds, LS2 9JT, United Kingdom

"**Active Conformation and Mimetic Analog Development for the Insectatachykinin, Insect Kinin and Myosuppressin Peptide Families.**" **Ronald J. Nachman**, Veterinary Entomology Research Unit, Food Animal Protection Research Lab., USDA–ARS, Route 5, Box 810, College Station, TX 77845; G.M. Coast, R.E. Isaac, A.B. Lange, H.J. Williams and O. Yamashita

SATURDAY, 3 FEBRUARY, 1996
3:45 PM–6:00 PM

SESSION IV

PANEL: "**Neuropeptides in the Pathology of Aging.**" **Garth Bissette**, Department of Psychiatry and Human Behavior, The University of Mississippi Medical Center, The Arthur C. Guyton Laboratory Research Building, 2500 North State Street, Jackson, Mississippi 39216–4505

"**Neuropeptides Involvement in the Pathology of Alzheimer's Disease.**" **Garth Bissette**, Department of Psychiatry and Human Behavior, The University of Mississippi Medical Center, The Arthur C. Guyton Laboratory Research Building, 2500 North State Street, Jackson, Mississippi 39216–4505

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"**Peptidase Contributions to Neuropeptide Changes in Alzheimer's Disease.**" **Tom Davis,** University of Arizona, Pharmacology Department, Tucson, AZ 85724

"**CRF Binding Protein Ligand Inhibitors as Novel Treatments for Alzheimer's Disease.**" **Errol DeSouza,** Research and Development, Neuroendocrine Biosciences, Inc. , 3050 Science Park Road, San Diego, CA 92121

6:00 PM–8:00 PM DINNER BREAK

8:00 PM–10:00 PM

SESSION V

PANEL: "**Insect Neuropeptides that Affect Development.**" **Timothy K. Hayes and Ronald J. Nachman,** Department of Entomology, Texas A&M University, College Station, TX 77843 and Food Animal Protection Research Laboratory, United States Department of Agriculture, Agriculture Research Service, Route 5, Box 810, College Station, TX 77845

"**Neuropeptides in Insect Development.**" **Edward Masler,** Insect Neurobiology and Hormone Laboratory, USDA, Building 306, Room 322, BARC–E, Beltsville, MD 20705

"**Ecdysiostatins in Insects.**" **Jan Koolman,** Institute for Physiological Chemistry, Biochemistry and Endocrinology, Philipps University, Deutsch Hausstrasse 1, D–35033, Marburg, Germany

"**Eclosion Hormone Action on the Nervous System: Intracellular Messengers and Sites of Action.**" **David B. Morton,** University of Arizona, ARL Division of Neurobiology and Department of Biochemistry, Tucson, AZ

"**Allatostatins as Neuropeptide Regulators of Juvenile Hormone Production.**" **Stephen Tobe,** Department of Zoology, University of Toronto, Toronto, ON M5S 1A1, Canada

"**Active conformation and mimetic analog Development for the insect Pyrokinin/Diapause Induction/Pupariation and Allatostatin Peptide Families.**" **Ronald J. Nachman,** Veterinary Entomology Research Unit, Food Animal Protection Research Lab., USDA–ARS, Route 5, Box 810, College Station, TX 77845

SUNDAY, 4 FEBRUARY, 1996
3:45 PM–6:00 PM

SESSION VI

PANEL: "**Development of Biosynthesis and Processing of Neuropeptides.**" **A. Saria and H. Winkler,** Neurochemistry Unit, Department of Psychiatry, Anichstr. 35, A–6020, Innsbruck, Austria

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"Processing and Biosynthesis of Chromogranins." A. Saria and H. Winkler, Neurochemistry Unit, Department of Psychiatry, Anichstr. 35, A–6020, Innsbruck, Austria

"Proenkephalin–Processing in the Embryonic Brain." O. Vindrola & Vida, M.I.R., Puebla, Mexico

"Developmental Expression of Cytokine Genes in Brain." F. Pousset, Fournier, J., & Keane, P.E., Toulouse, France

"Ontogeny of Prohormone Convertases." M. Marcinkiewicz, Laboratory of Molecular Neuroendocrinology, Clinical Research Institute of Montreal, 110 Pine Ave. W., Montreal PQH2W IR7 Canada

6:00 PM–8:00 PM DINNER BREAK

8:00 PM–10:00 PM

SESSION VII

PANEL: "VIP, PACAP and Their Secreted Products as Regulators of Mitogenesis, Cell Survival and Embryonic Growth." Joanna M. Hill and Douglas E. Brenneman, Laboratory of Developmental Neurobiology, NICHD, NIH, Building 49: Room 5A–38, Bethesda, MD 20892

"Stearyl–Nle VIP Protects against Developmental Retardation in APOE–Deficient Mice." Illana Gozes, Department of Clinical Biochemistry, Tel Aviv University, Tel Aviv, Israel

"VIP and PACAP Regulation of Cytokine Release: Implications for Neurodevelopment." Douglas E. Brenneman, Laboratory of Developmental Neurobiology, NICHD, NIH, Building 49: Room 5A–38, Bethesda, MD 20892

"Possible Mechanisms Involved in VIP Regulation of Embryonic Growth." Joanna M. Hill, Laboratory of Developmental Neurobiology, NICHD, NIH, Building 49: Room 5A–38, Bethesda, MD 20892

"Growth Factor Properties of VIP During Early Brain Development: Whole embryo Culture and *in vivo* Studies." Pierre Gressens, Laboratory Neurological Development, Hopital Robert–Debre, Paris, France

"Vasoactive Intestinal Peptide, a Potent Stimulator of Mitosis in Embryos, Regulates Cyclin mRNA Content." Stephen J. Servoss, Laboratory of Developmental Neurobiology, NICHD, NIH, Building 49, Room 5A–38, Bethesda, MD 20892

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MONDAY, FEBRUARY 5, 1996
3:45 PM – 6:00 PM

SESSION VIII

PANEL: "Non–Peptide Neuropeptide Antagonists." **W. Rostene**, Inserm, U.339 Hopital St Antoine, 75012 Paris

"The Use of Non–peptide Neurotensin Receptor Antagonists to Explore the Neurobiological Roles of Neurotensin." **W. Rostene**,Inserm, U.339 Hopital St Antoine, 75012 Paris

"Peptide and Non–Peptide Antagonist Interactions With Peptide Receptors." **T.H. Schwartz**, Department of Molecular Endocrinology, Copenhagen, Denmark

"Non–peptide CRH Receptor Antagonists." **R.S Mansbach & David Schultz**, Pfizer Central Research, Groton, CT

"Neurokinin Receptor Antagonists." **P. Delay–Goyet**, Rhone–Poulenc–Rorer Research, Paris, France

6:00 PM – 7:00 PM

PLENARY SESSION
Dr. Carl Cotman

TUESDAY, FEBRUARY 6, 1996
3:00 PM – 5:00 PM

SESSION IX

PANEL: "Developmental Neurobiology of Stress: Pre–, Peri– and Postnatal Peptides." **Tallie Z. Baram**, Department of Pediatrics, University of California – Irvine, Irvine, CA 92717

"Maternal and Placental Peptides Influence Human Fetal Behavior and Birth Outcome." **Curt A. Sandman**, Department of Psychiatry, University of California, Irvine, CA

"Multiple Brain CRF Receptors: From Molecular Cloning to Circuit Analysis." **Derek T. Chalmers**, Neuroscience Department, Neurocrine Biosciences, 3050 Science Park Road, San Diego, CA 92121

"Neonatal ACTH Alters Hypothalamic–Pituitary–Adrenal and –Gonadal Function: Correlation with Developmental Changes in Forebrain Monoamine Innervention." **Stephen E. Alves and Fleur L. Strand**, Department of Biology, New York University, Washington Square, New York, NY 10003

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"CRH in the Neonatal Stress Response: Multiple Regulatory Levels" **Tallie Z. Baram,** Department of Pediatrics, University of California – Irvine, Irvine, CA 92717

5:00 PM – 7:00 PM

SESSION X

"Changes in Neuropeptide Expression after Axotomy: The Roles of LIF and NGF." **Richard Zigmond,** Department of Neurosciences, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106–4975

"The Phenotypic Switch in Sympathetic Sudomotor Neurons Involves Induction of Vasoactive Intestinal Peptide." **Beth Habecker,** Department of Neurosciences, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106–4975

"Target Tissue Influence on Somatostatin Expression in the Avian Ciliary Ganglion." **James Coulombe,** Department of Anatomy and Cell Biology, Uniformed Services University of the Health Sciences, 4301 Jones Bridge Road, Bethesda, MD 20814–4799.

7:00 PM

POSTER SESSION

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